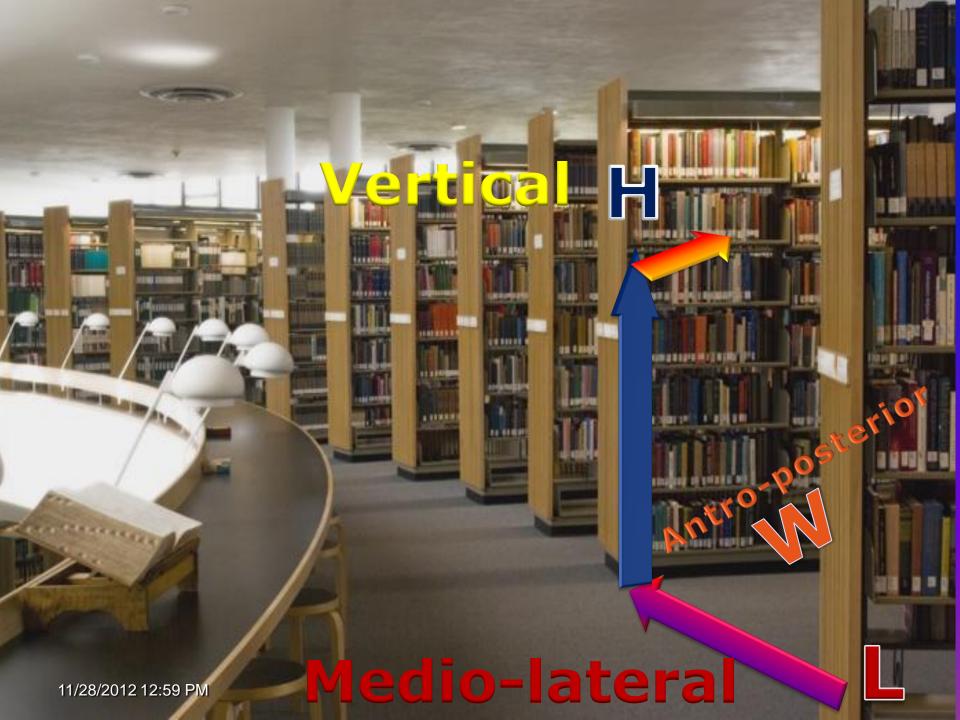
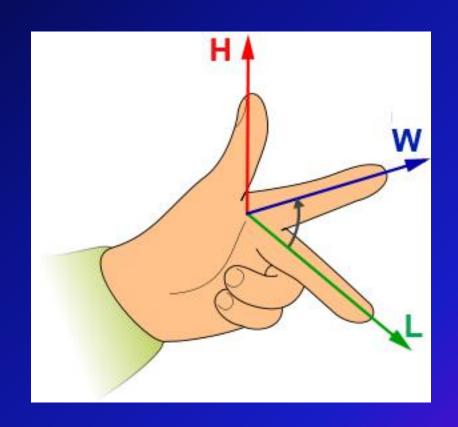


RECORDING JAW RELATIONSHIPS



3 D. OF ANY BODY



I- THE VERTICAL DIMENSION

II- THE HORIZONTAL RELATIONSHIP (CENTRIC RELATION)

A- Medio-lateral

B- Antro-posterior

Recording jaw relations

- I. Adjustment of the upper record blocks
- II. The vertical dimension
- III. The horizontal relationship (centric relation)

Transfer patient's maxillo- mandibular relations to articulator

Equipment

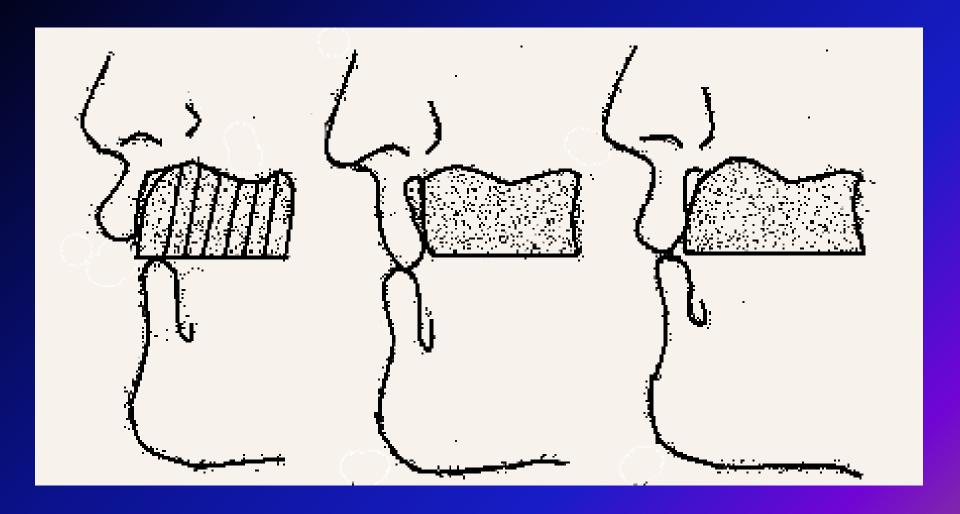


I- ADJUSTMENT OF THE UPPER RECORD BLOCKS

I- ADJUSTMENT OF THE UPPER RECORD BLOCKS

- 1. Labial Fullness
- 2. The Height of the Rim
- 3. Anterior Plane
- 4. Anteroposterior Plane
- 5. Post-Damming
- 6. Guide Lines

A- Labial Fullness



B- The Height of the Rim



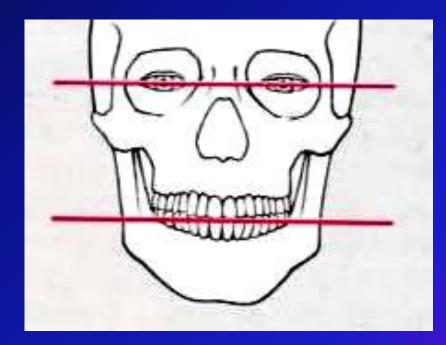
A greater length of teeth than normal will be shown if the patient has:

- (a) A short upper lip.
- (b) Superior protrusion.

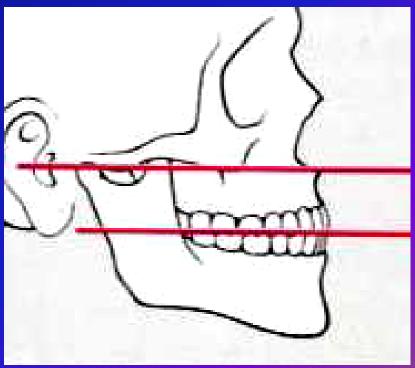
Less will be shown with:

- (a)long upper lip.
- (b)In most old people (loss of tone of the orbicularis muscle).

C- Anterior Plane



D- Anteroposterior Plane
(ala-tragus or Camper's line)



Adjustment of the anterior occlusal plane



Occlusal plane indicator (Fox plane)

Adjustment of the anteroposterior occlusal plane





E- The Position of the Posterior Palatal Border (Post-Damming)

The vibrating line



The depth of post dam is determined by checking compressibility of tissue



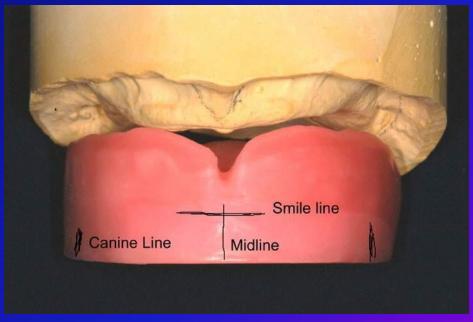
Function of posterior palatal seal:

- 1. It increases retention of the denture by atmospheric pressure.
- 2. It prevents air and food from getting under the denture.
- 3. It reduces reflex irritation and gag by reducing patient awareness of this area, since there should be no separation of the denture base and soft palate during normal functional movements.
- 4. Making the thickness of the base less conspicuous to the tongue, as, the posterior denture border will approximate the soft tissues.
- 5. It compensates for dimensional changes that are inherent in the laboratory procedures.

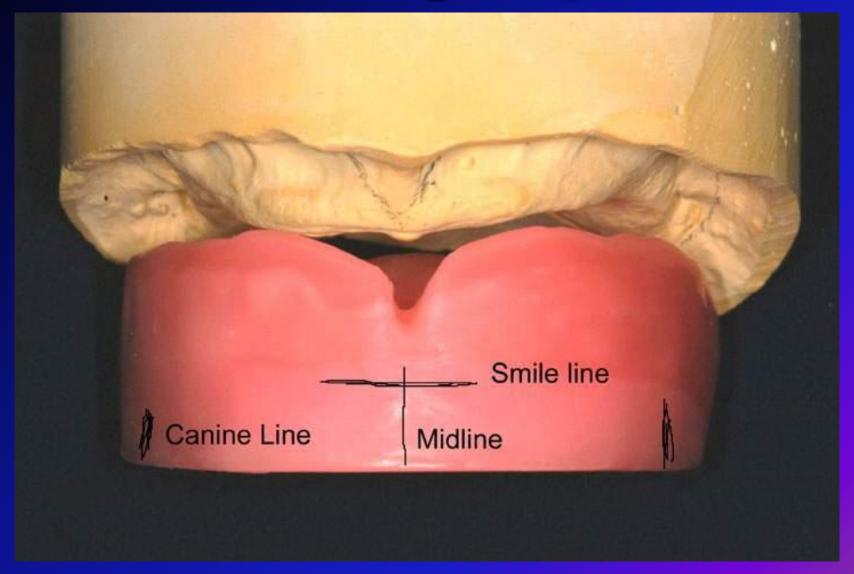
F- Guide Lines

1- The center line





2- The high lip line



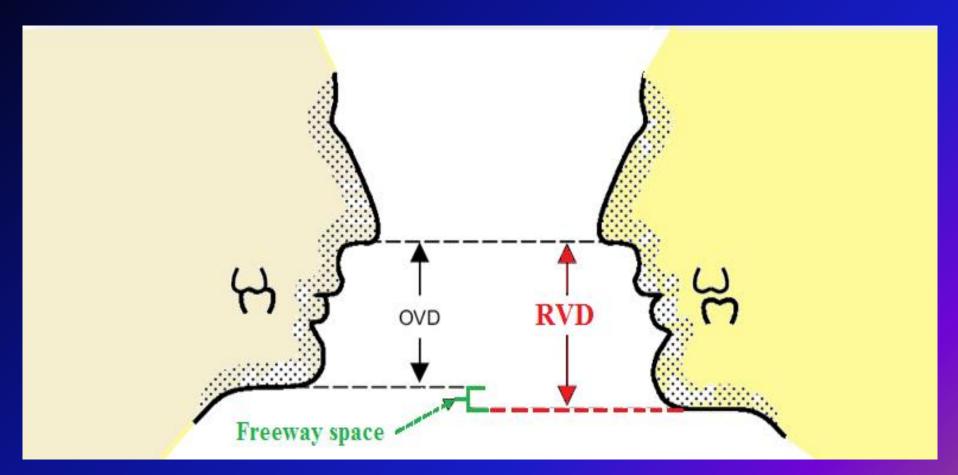
3- The corner line.



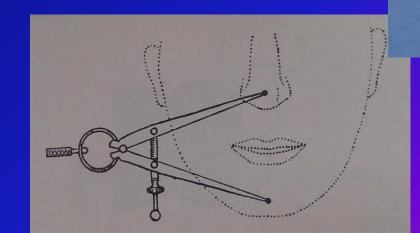
II- THE VERTICAL DIMENSION

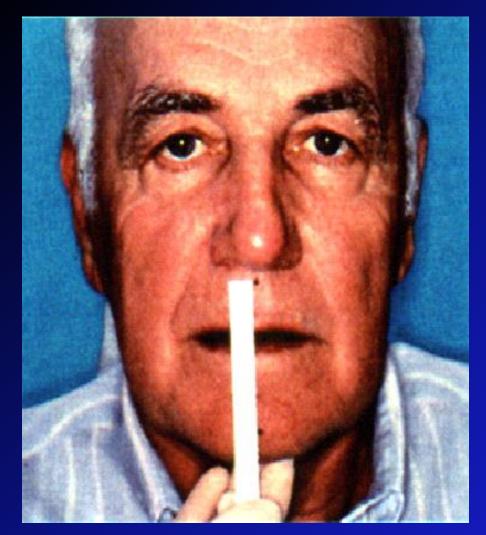
Techniques of recording the vertical dimension of occlusion

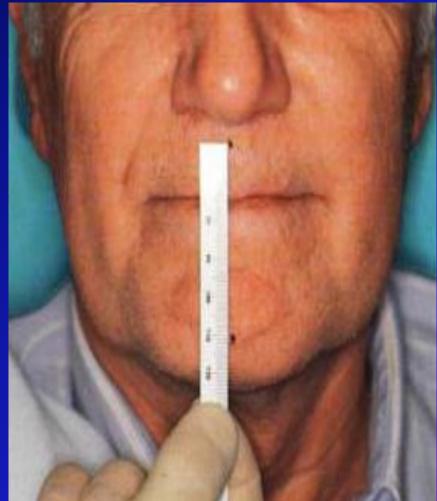
A- Rest Position (Free Way Space) Measurement



Measuring the VD by a divider or by a caliper









Patient sitting upright

Soft tissue position affected by posture







B- Willis Measurement





Nose-chin distance = Canthus- commissure distance



C- Facial Expression

- The dentilabial sulcus
- The Nasolabial sulcus
- Check for freeway space





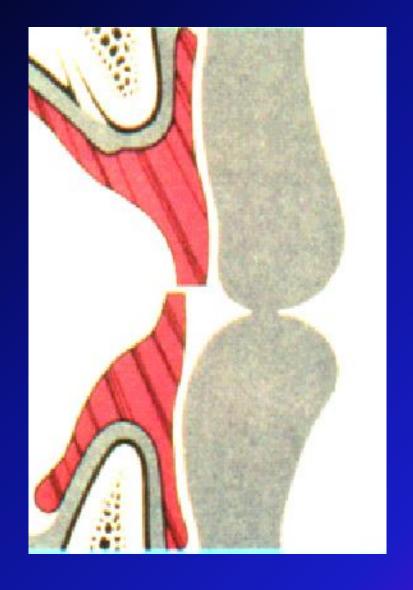




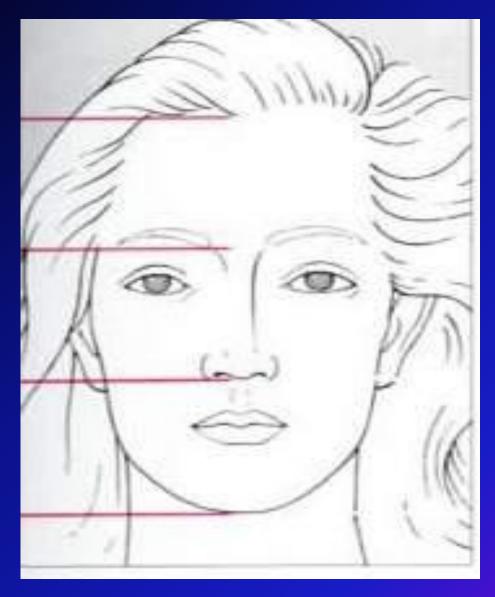








Lip support



Equal thirds

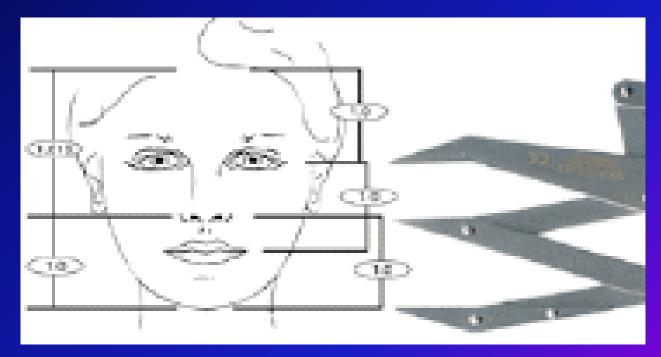
D- Pre-extraction Records

- 1- Facial measurements
- 2- Contour wire (profile tracing)
- 3-Articulated models
- 4- Acrylic resin face mask
- 5-Profile radiograph or photograph

E- Golden proportion

•GOLDEN RULER

The Golden Ruler enables the dentist to measure the vertical dimension easily and simply.



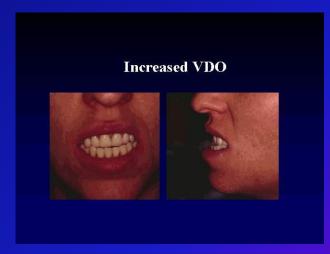




Aids in the comparison of facial proportions to produce good esthetic.

EFFECTS OF EXCESSIVELY INCREASING VDO

Discomfort
Trauma
Clicking of Teeth
Appearance





EFFECTS OF EXCESSIVELY REDUCING VDO

Inefficiency Cheek biting Appearance TMJ troubles Angular chelitis







III- THE HORIZONTAL RELATIONSHIP

(CENTRIC RELATION)

Methods for registration of Centric relation

1. The interocclusal registration method

2. The central bearing point (Gothic arch tracing) method.

I- Interocclusal Registration of Centric Relation

Difficulties of Retruding the Mandible

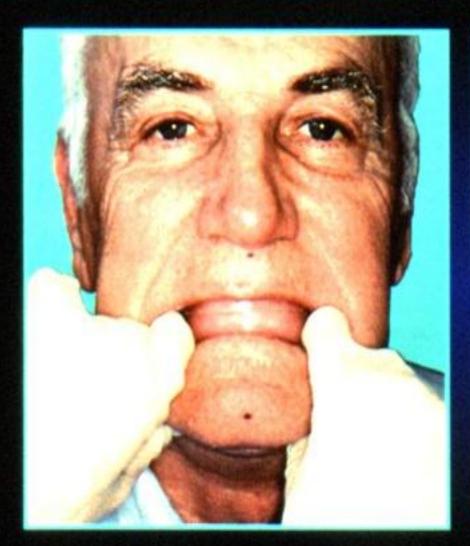
- Individuals, who have been without teeth for some considerable time.
- Many patients with only the natural anterior teeth standing.

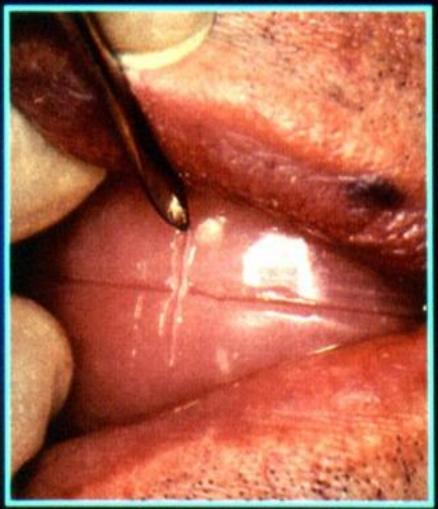
Aids to retrude the mandible

Always ask the patient to close, never ask him to bite

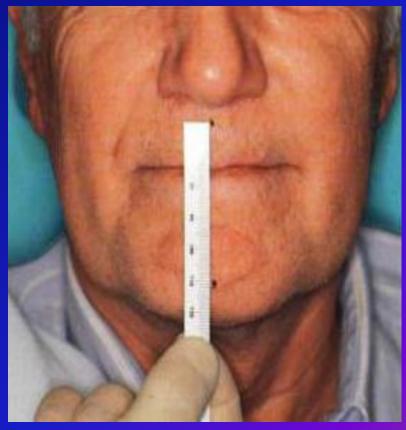
- Tongue retrusion
- Relaxation
- Swallowing
- Fatigue
- Head position
- The temporalis muscle check

HORIZONTAL MAXILLOMANDIBULAR RELATIONSHIP RECORDS







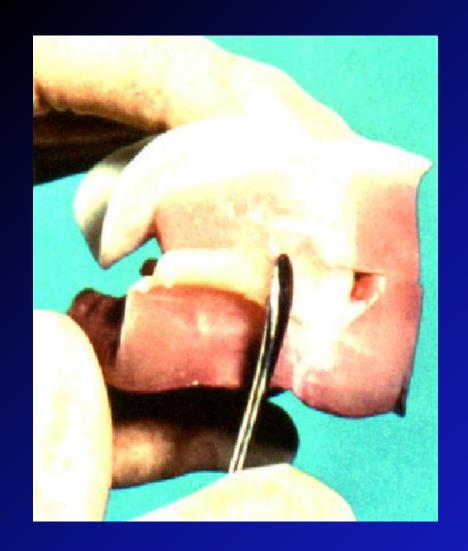


V-SHAPED NOTCHES ARE CUT IN THE LOWER RIM



Wax interocclusal record







Excess wax is removed

Zinc-oxide paste is used as interocclusal material

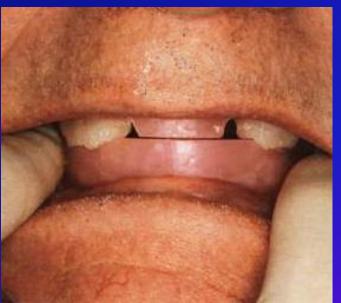


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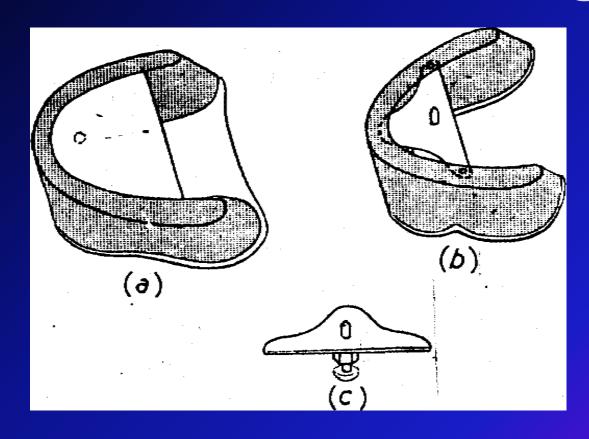






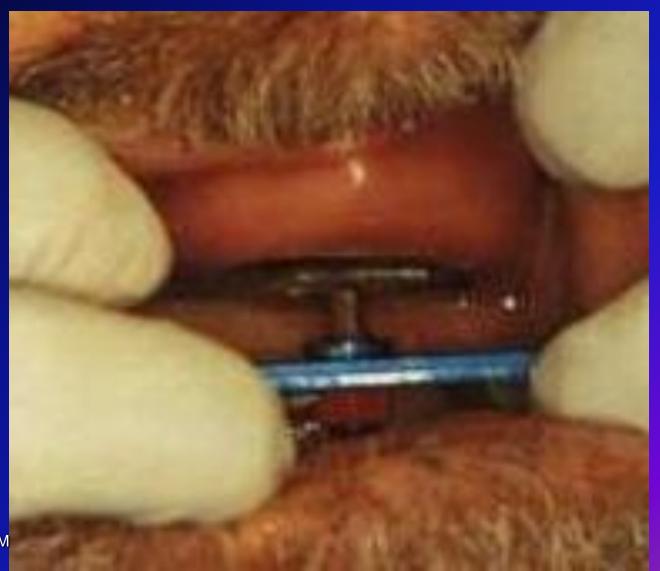


II- Gothic Arch Tracing

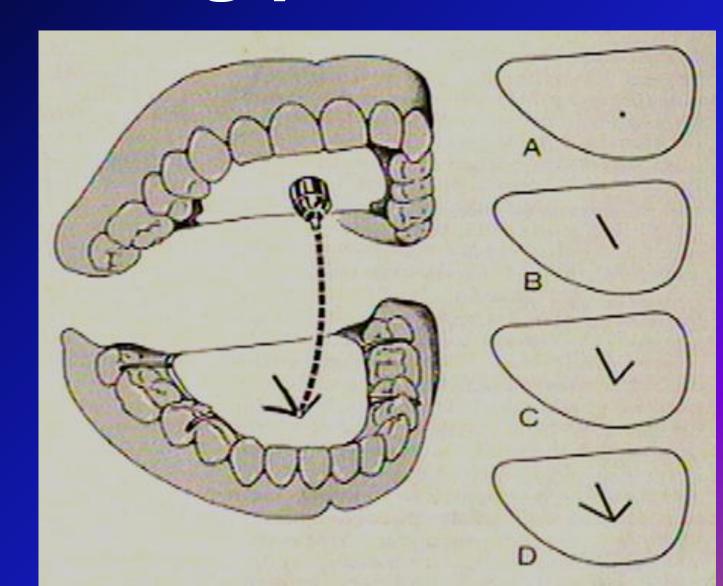


- a) A tracing plate.
- b&c) A carrier with a pointed stylus (tracing point) And a locking disc

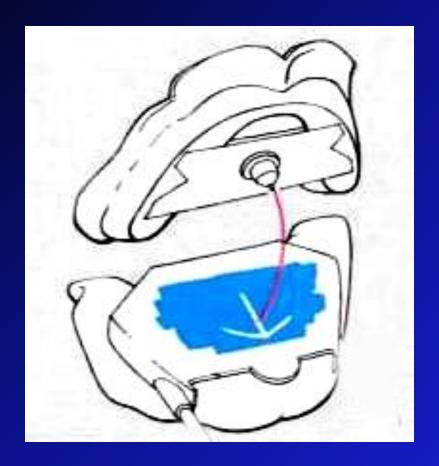
Gothic arch tracing



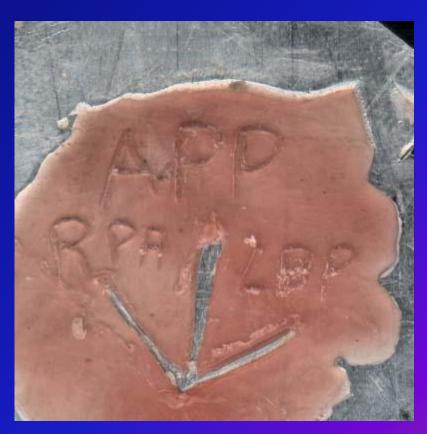
The tracing procedure



The recording pin do the tracing on the plate

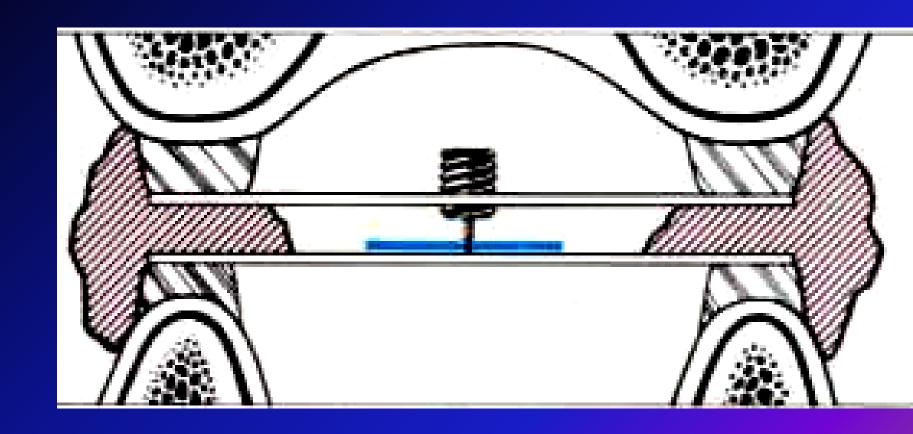


The tracing procedure

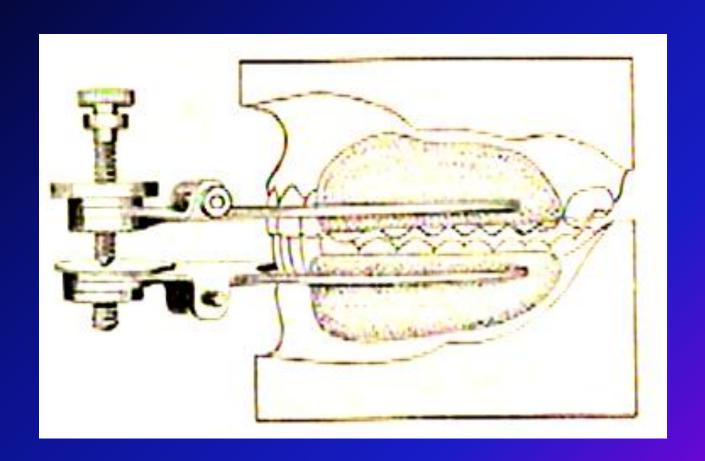


The resultant tracing

Sealing the upper and lower rims by plaster



B- Extraoral Tracing

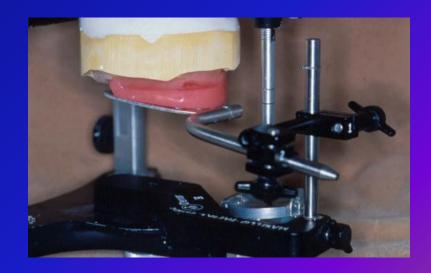


Relating the maxilla to the hinge axis



The facebow record and transefer



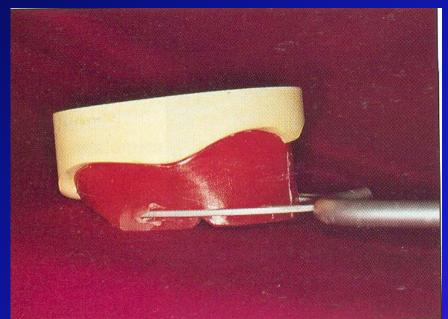


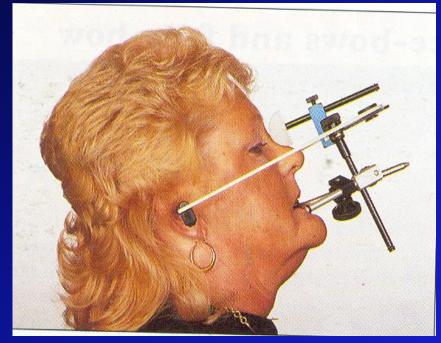
Arbitrary & Kinematics' Face-bows











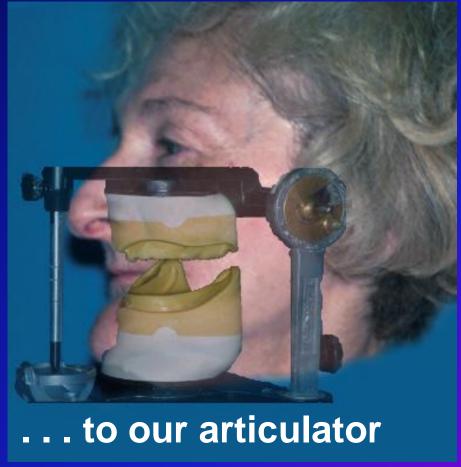


Mounting the casts on the articulator





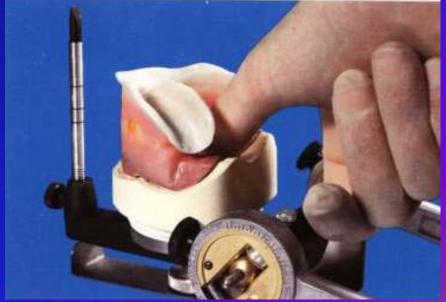






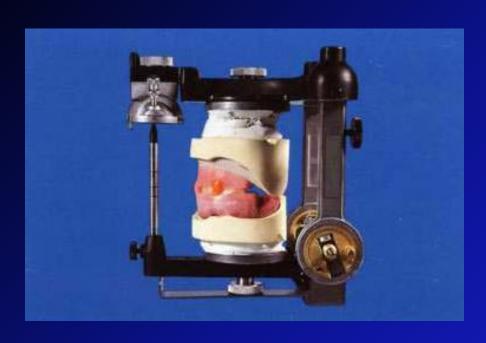














THE END